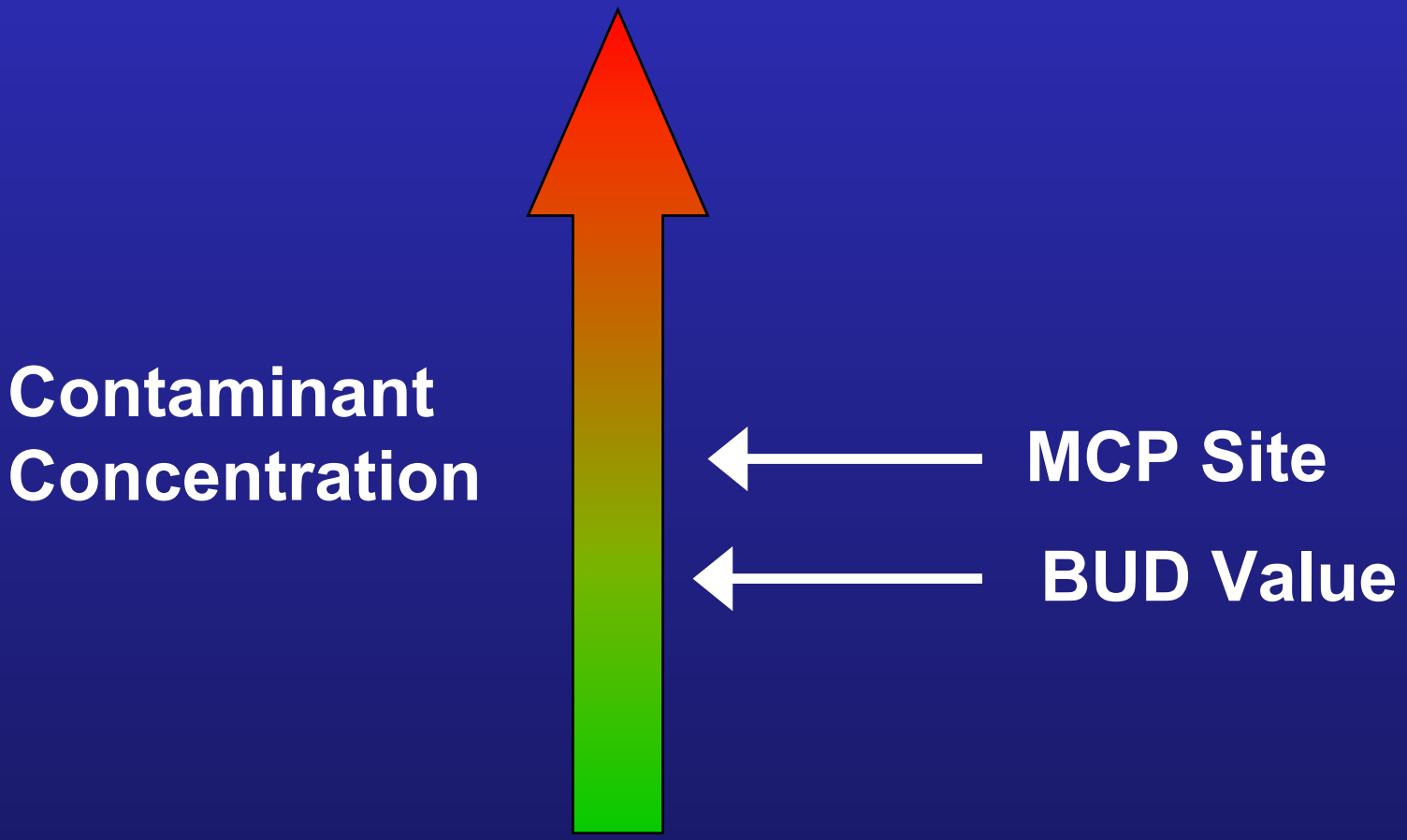
Development of BUD Values

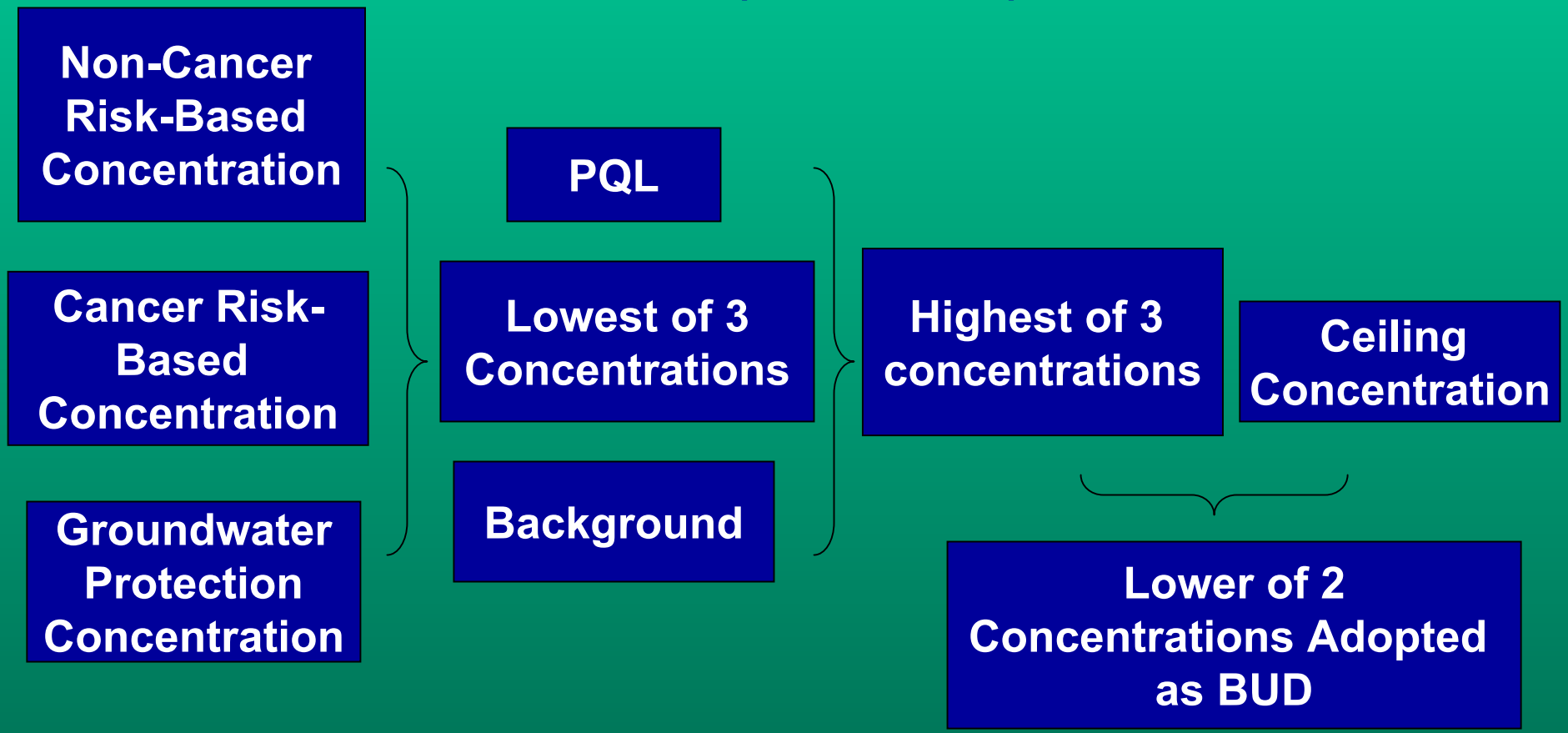


Categories of BUD Values

- S-1 protective of unrestricted use
- S-2 protective of commercial use
- S-3 protective of construction/ utility work

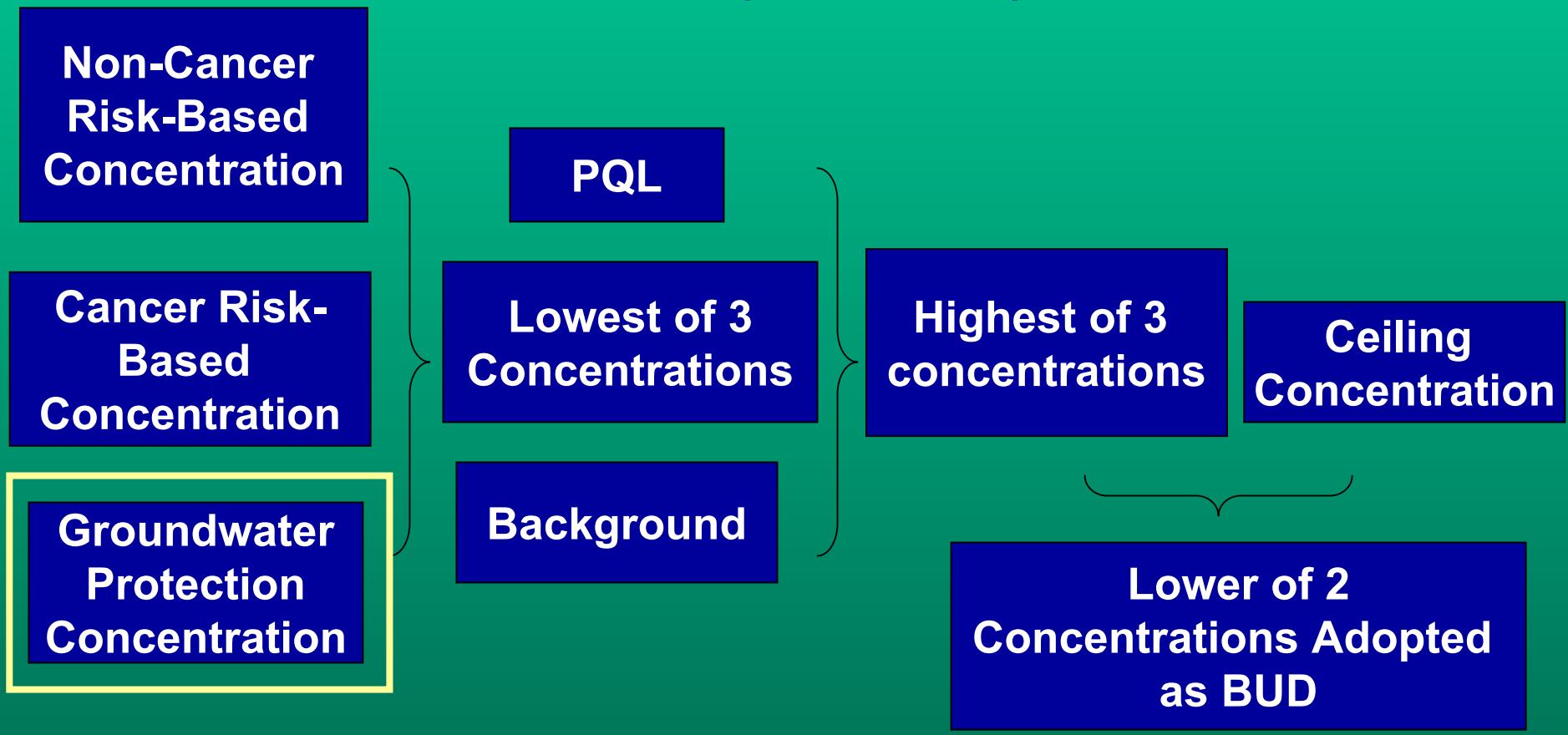
Decision Tree for BUD Soil Values

(non CCCs)



Decision Tree for BUD Soil Values

(non CCCs)



Groundwater Protection

Development Of Soil BUD Values

Leaching-based Concentrations In Soil

Groundwater BUD Values

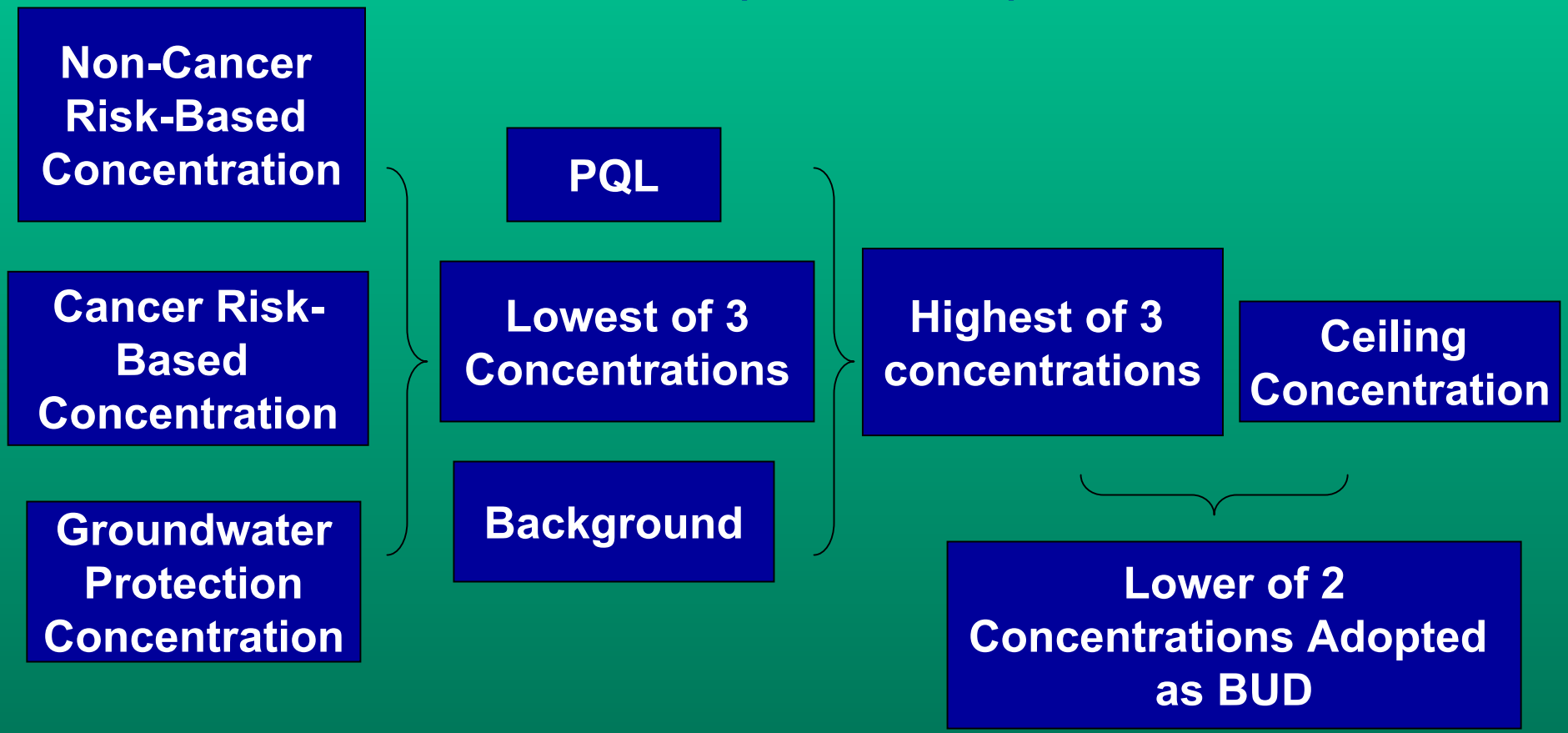
BUD Values for Groundwater

Values protective of
- Drinking water
- Indoor air exposures
- Aquatic organisms

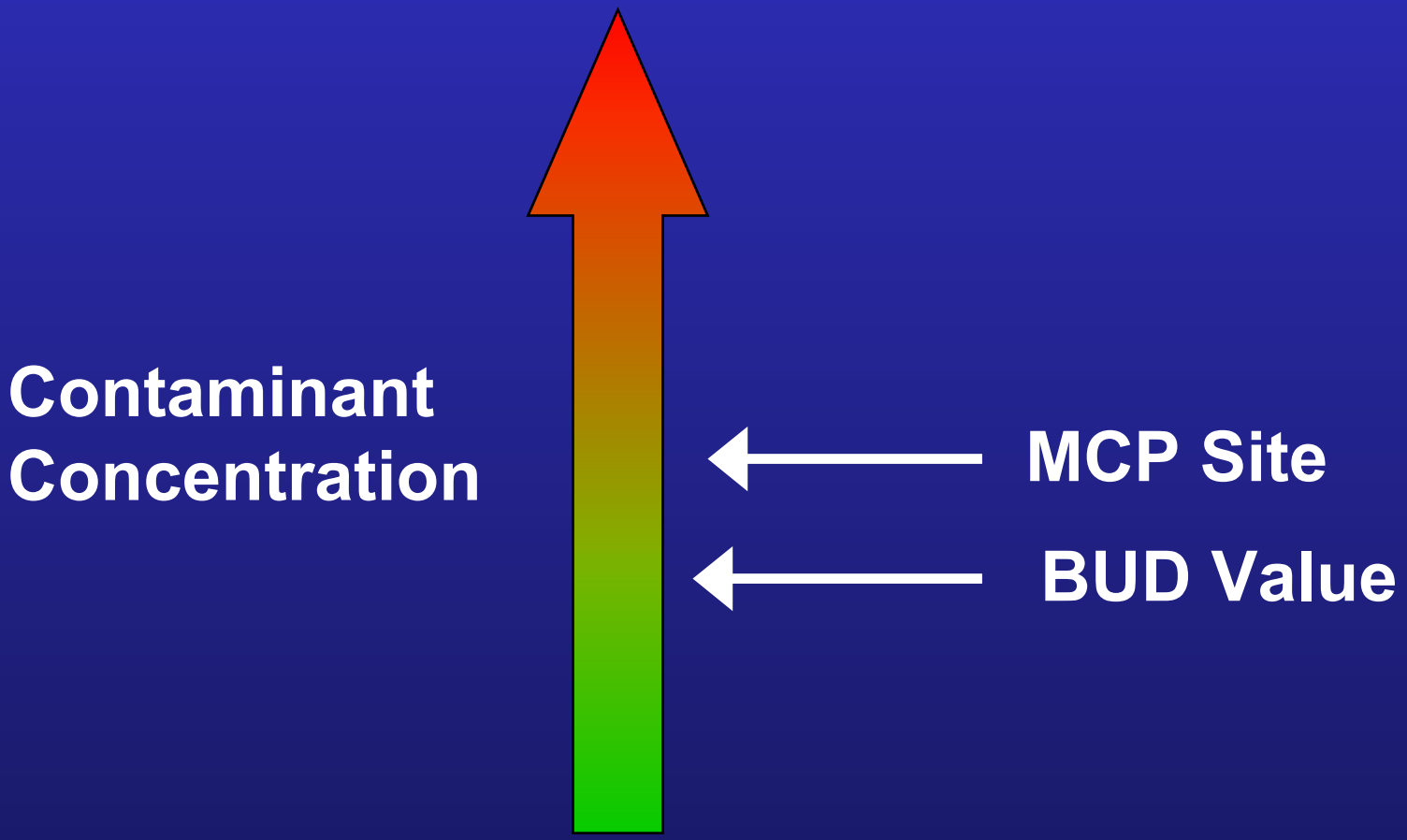
Consider
- Background
- PQLs

Decision Tree for BUD Soil Values

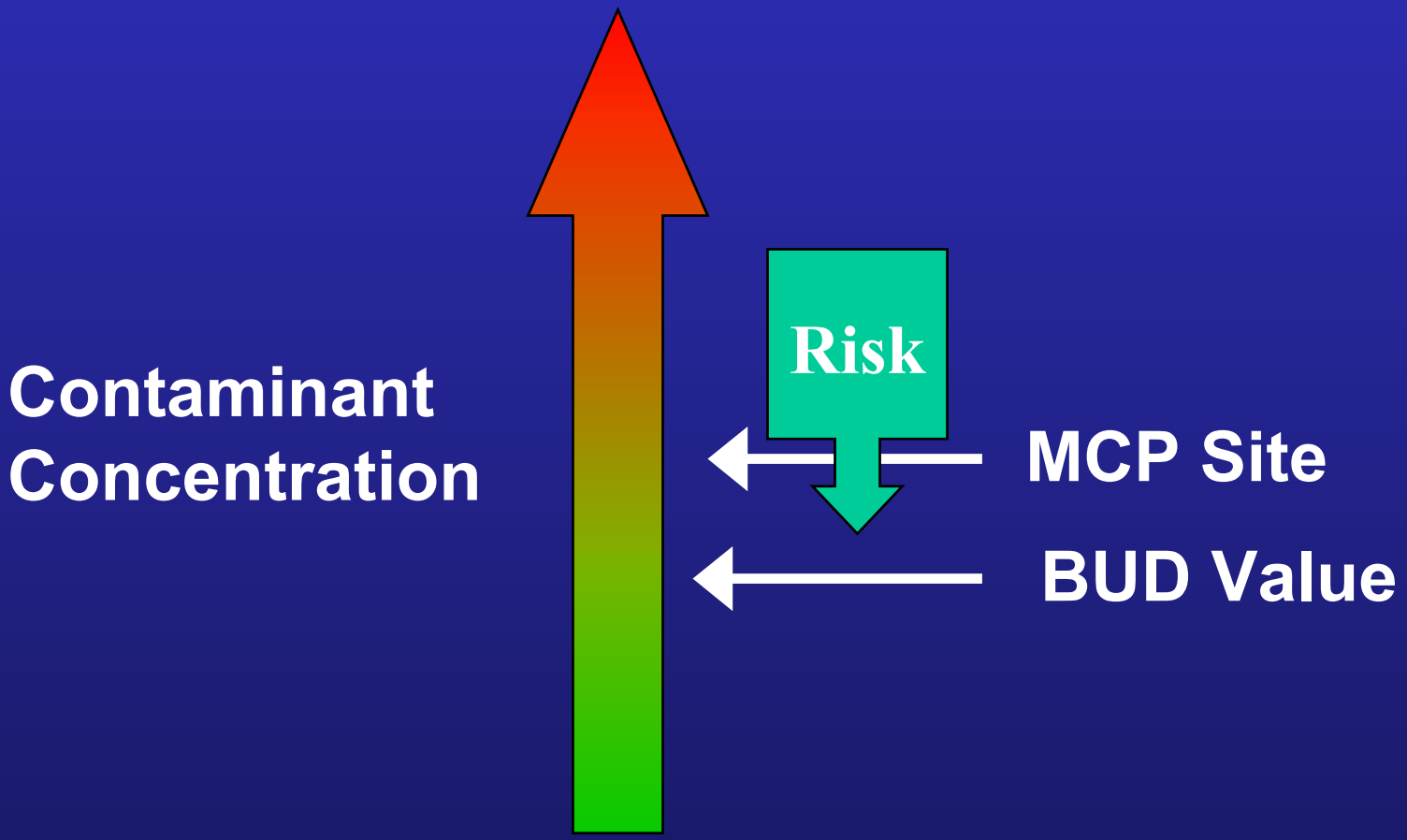
(non CCCs)



Development of BUD Values

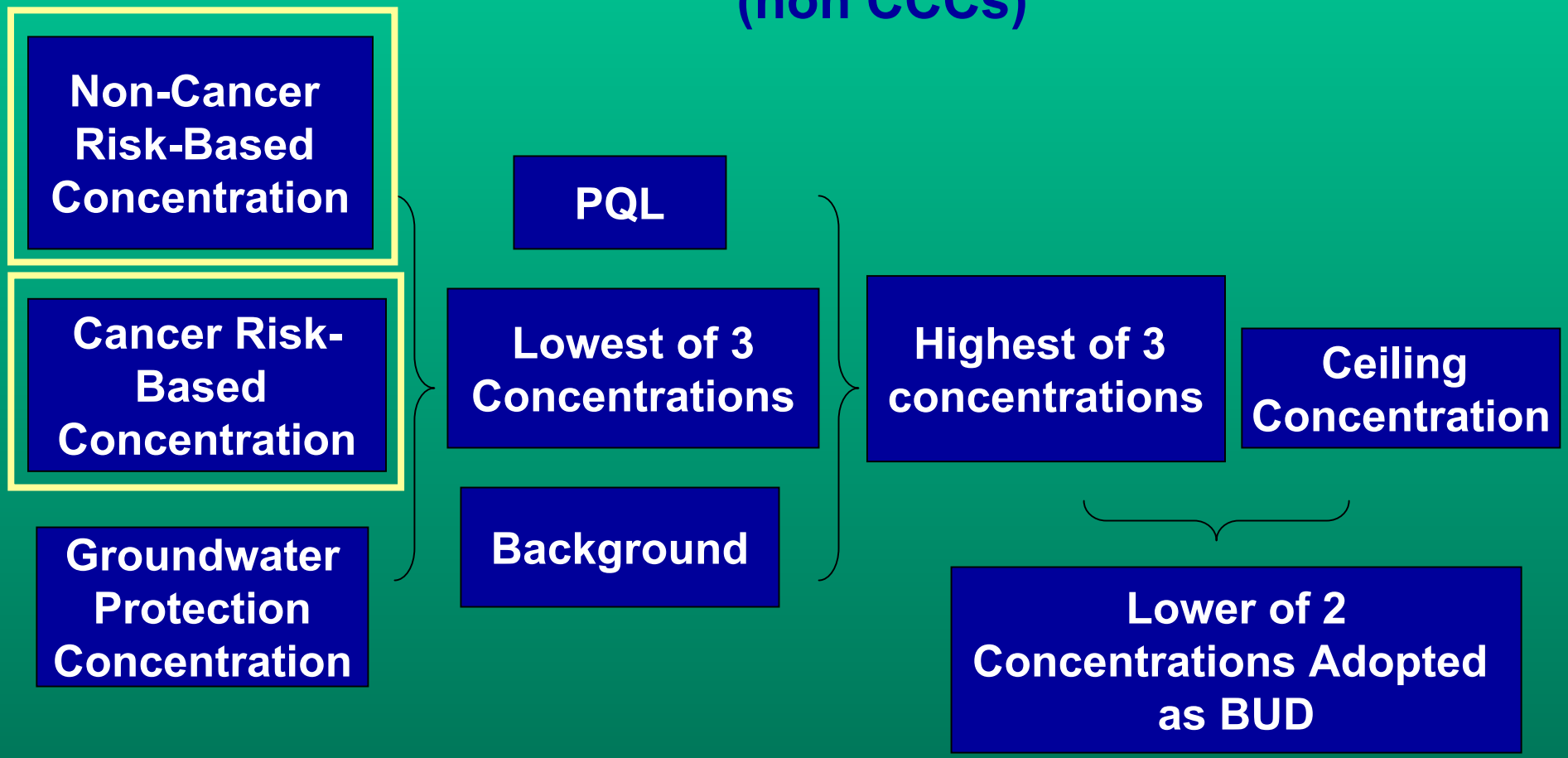


Development of BUD Values



Decision Tree for BUD Soil Values

(non CCCs)



MCP versus BUD
- Risk Criteria -

BUD

Risk Criteria for BUD values

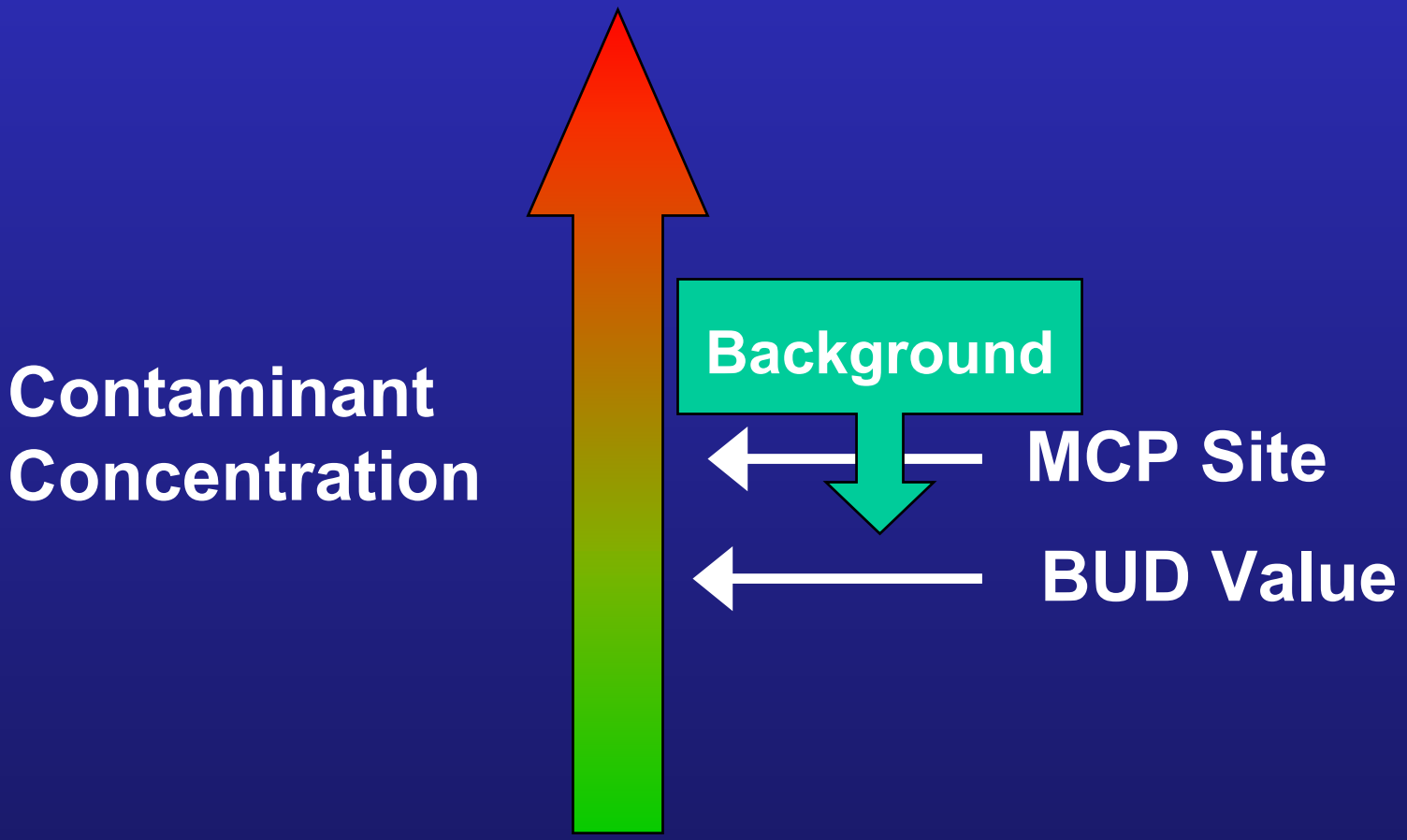
HI = 0.1 and ELCR = 5×10^{-7}

MCP

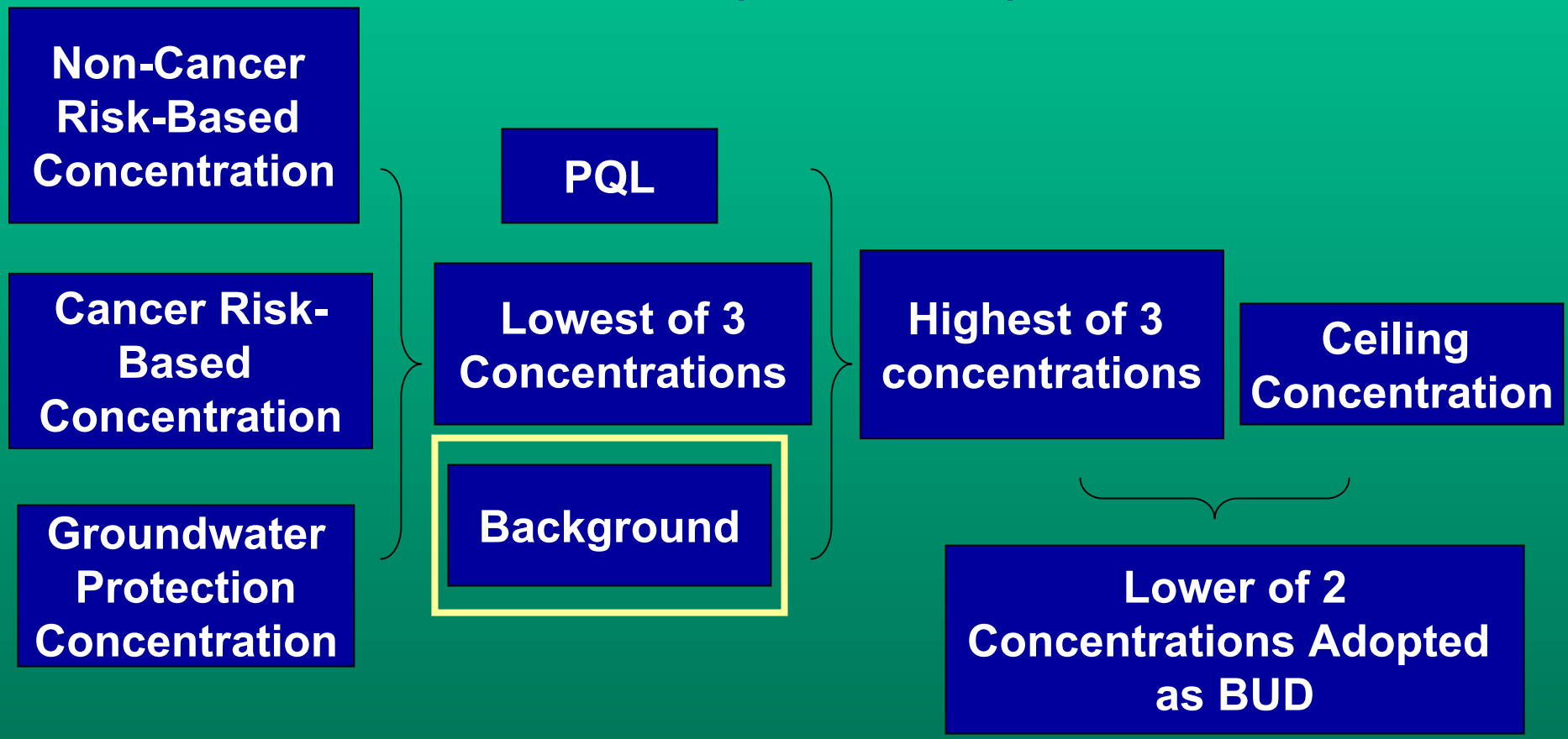
Risk Criteria for MCP values

HI = 0.2 and ELCR = 1×10^{-6}

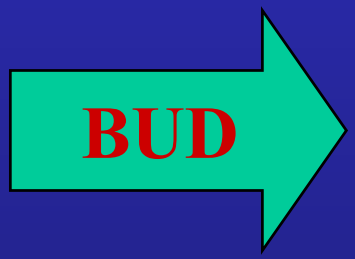
Development of BUD Values



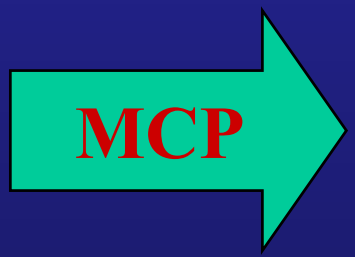
Decision Tree for BUD Soil Values
(non CCCs)



MCP versus BUD
- Background -



Background used to develop **BUD** value represents the 50th percentile of the data set.



Background used to develop **MCP** value represents 75th percentile of the data set.

Summary of BUD Values

- Three different categories
- Never lower than background or PQL
- Prevent creation of new MCP sites (change risk and background criteria)